Republic of Bulgaria
Executive Agency
Bulgarian Accreditation Service

Signatory to the EA Multilateral Agreement in this field

ORDER

№ А 142

Sofia, 31.03.2023

Pursuant to Art. 10, para. 1, item 4, art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, items 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure, reg. №. 261/279 ЛИ/ПА/26.04.2022, report reg. № 261/279 ЛИ/ПА/11/В/20.02.2023 and Statement of the Accreditation Commission reg. № 261/279 ЛИ/ПА/15/В/31.03.2023, I hereby

RE-ACCREEDIT

Shipka Group AD

CENTRAL Testing Laboratory

Management address: 6100 Kazanlak, 2, Sevtopolis Sqr.

Laboratory address: 6100 Kazanlak, 1, Petko Staynov Str.

To perform testing of:

Type of the scope: *flexible for a part of the scope**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	**2**	**3**	**4**
1.	WATER - Drinking water (1), - Mineral water from the water source for hygienic and preventive purposes (2), - Surface water (3), - Underground water (4), - Swimming pool water (5), - Fish farming water (6), - Waste water (7)	1.1. Color/Absorption coefficient	БДС EN ISO 6271 (1, 2, 3, 4, 5, 6) БДС EN ISO 7887 (1, 4)
		1.2. Smell	БДС 8451 (1)
		1.3. Taste	БДС 8451 (1)
		1.4. Temperature	БДС 8451 (1) БДС 17.1.4.01(7)
		1.5. Turbidity	БДС EN ISO 7027-1 (1, 2, 3, 4, 5, 6)
		1.6. pH	БДС EN ISO 10523 (1, 2, 3, 5, 6, 7) БДС 17.1.4.27 (3, 4, 6)
		1.7. Electrical conductivity	БДС EN 27888 (1, 2, 3, 4)
		1.8. Total hardness	БДС 3775 (1) БДС ISO 6059 (2, 3, 4, 6)
		1.9. Total dry residue	БДС 3546 (1)

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Type of the scope: *flexible for a part of the scope**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	**2**	**3**	**4**
			БДС 17.1.4.04 (2, 3, 4)
		1.10. Undissolved substances / Total Suspended Solids	БДС 17.1.4.04 (2, 3, 4, 5, 6, 7) БДС EN 872 (3, 6, 7)
		1.11.Total Dissolved Solids/losson ignition	БДС 17.1.4.04 (2, 3, 4)
		1.12. Dissolved oxygen/Oxygen saturation	БДС 17.1.4.08 (2, 3, 4, 6) БДС EN ISO 5814 (1, 2, 3, 4, 6)
		1.13.Total Organic Carbon (TOC)	ILTM 5.04-1-30:2013 (1, 2, 3, 4, 6, 7)
		1.14.Anionic detergents / surfactants / detergents	БДС 17.1.4.25 (2, 3, 4, 6, 7)
		1.15.Phenol /Phenol Index	ILTM 5.04-1-29:2013 (1, 2, 3, 4, 6, 7)
		1.16. Permanganate oxidation / Permanganate index	БДС EN ISO 8467 (1, 2, 3, 6) БДС 17.1.4.16 (2, 3, 4, 6)
		1.17. Oxidation (permanganate)	БДС 3413 (1)
		1.18. Chemical oxygen demand (COD)	БДС 17.1.4.02 (3, 4, 6, 7)
		1.19. Biochemical oxygen demand after 5 days (BOD_5)	БДС EN ISO 5815-1 (3, 6, 7) БДС EN 1899-2 (3, 4, 6, 7)
		1.20.Total extractable organic compounds /animal fat and vegetable oils / petroleum products	ILTM 5.04-1-21:2016 (1, 3, 4, 6, 7)
		1.21. Total alkalinity / Bicarbonate ions (HCO_3^-)	БДС EN ISO 9963-1 (1, 2, 3, 4, 6)
		1.22. Carbonate alkalinity / Carbonate ions (CO_3^{2-})	БДС EN ISO 9963-2 (1, 2, 3, 4, 6)
		1.23. Ammonium ions / Nitrogen (ammonium) / Ammonia	БДС ISO 7150-1 (1, 2, 4, 5, 6, 7) ILTM 5.04-1-03:2009 (1, 2, 3, 4, 5, 6, 7)
		1.24. Nitrates / Nitrogen (nitrate)	БДС ISO 7890-3 (1, 2, 4, 7) ILTM 5.04-1-01:2009 (1, 2, 3, 4, 7)
		1.25. Nitrites /Nitrogen (nitrite)	ILTM 5.04-1-02:2009 (1, 2, 3, 4, 5, 6)
		1.26. Residual free chlorine / total residual chlorine	БДС 3560 (1) ILTM 5.04-1-04:2009 (1, 2, 3, 4, 5, 6)
		1.27. Total nitrogen	ILTM 5.04-1-31:2013 (1, 2, 3, 4, 7)
		1.28. Organic nitrogen (difference between total nitrogen and inorganic nitrogen)	ILTM 5.04-1-32:2016 (2, 3, 4, 7)
		1.29. Chloride (Cl^-)	ILTM 5.04-1-07:2009 (1, 2, 3, 4) БДС 17.1.4.24 (2, 3, 4, 6)
		1.30. Sulphates (SO_4^{2-})	БДС 3588 (1, 2, 6)

Type of the scope: *flexible for a part of the scope**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	**2**	**3**	**4**
			ILTM 5.04-1-08:2009 (1, 2, 3, 4, 7)
		1.31.Sulfides -dissolved -free hydrogen sulphide	БДС 17.1.4.09 (2 ,3, 4, 6, 7)
		1.32.Phosphates - Orphophosphates/ as P - Total phosphorus - Total phosphorus /as PO_4 - Phosphates / as P_2O_5	БДС EN ISO 6878 (1, 2, 3, 4, 5, 6, 7) ILTM 5.04-1-09:2023 (1, 2, 3, 4, 6, 7)
		1.33. Iron (Fe) - total - dissolved	БДС ISO 6332 (1, 2, 3, 4, 5, 7) ILTM 5.04-1-05:2009 (1, 2, 3, 4, 5, 6, 7)
		1.34. Manganese (Mn)	БДС ISO 6333 (1, 3, 5) ILTM 5.04-1-06:2009 (1, 2, 3, 4, 5, 6, 7)
		1.35. Magnesium (Mg)	ILTM 5.04-1-23:2012 (1, 2, 3, 4, 6)
		1.36. Calcium (Ca)	БДС ISO 6058 (1, 2, 3, 4, 6)
		1.37.Sodium (Na)	ILTM 5.04-1-26:2023 (1, 2, 3, 4, 6, 7)
		1.38. Zinc (Zn)	ILTM 5.04-1-13:2023 (1, 2, 3, 4, 6, 7)
		1.39. Copper (Cu)	ILTM 5.04-1-15:2023 (1, 2, 3, 4, 6, 7)
		1.40. Nickel (Ni)	ILTM 5.04-1-25:2023 (1, 2, 3, 4, 7)
		1.41. Fluoride (F)	ILTM 5.04-1-10:2009 (1, 2, 3, 4)
		1.42. Chromium (Cr) - hexavalence - threevalence - total	БДС 17.1.4.17 (2, 3, 4) ILTM 5.04-1-11:2023 (1, 2, 3, 4, 6, 7)
		1.43. Lead (Pb)	ILTM 5.04-1-14:2023 (1, 2, 3, 4, 6, 7)
		1.44. Cadmium (Cd)	ILTM 5.04-1-16:2023 (1, 2, 3, 4, 6, 7)
		1.45.Potassium (K)	ILTM 5.04-1-27:2023 (1, 2, 3, 4, 6)
		1.46. Aluminium (Al)	ILTM 5.04-1-18:2011 (1, 2, 3, 4, 7)
		1.47. Arsenic (As)	ILTM 5.04-1-19:2023 (1, 2, 3, 4, 6, 7)
		1.48. Cyanid (CN) -free -readily liberated	ILTM 5.04-1-20:2011 (1, 2, 3, 4, 6, 7)
		1.49. Silicon/ Silicon dioxide / Meta-silicic acid	ILTM 5.04-1-28:2016 (2, 3, 4)
		1.50. General mineralization	ILTM 5.04-1-22:2012 (2, 3, 4)
		1.51. Enumeration of culturable micro-organisms	БДС 17335 (5) БДС EN ISO 6222

Type of the scope: *flexible for a part of the scope**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	**2**	**3**	**4**
			(1, 2, 3, 4, 5)
		1.52. Enumeration of coliform bacteria	БДС 17336 (1) БДС EN ISO 9308-1/A1 (1, 5) ILTM 5.04-1-38:2021 (2, 3, 4)
		1.53. Enumeration of Escherichia coli bacteria	БДС 17336 (1) БДС EN ISO 9308-1/A1 (1, 5) ILTM 5.04-1-38:2021 (2, 3, 4)
		1.54. Enumeration of enterococci	БДС EN ISO 7899-2 (1, 2, 3, 4, 5)
		1.55.Enumeration Staphylococcus aureus	БДС 17335 (5)
		1.56. Enumeration of the spores of sulfite-reducing anaerobes (clostridia)/ Enumeration of Clostridium perfringens	БДС EN 26461-2 (1, 2, 3, 4) БДС EN ISO 14189 (1)
		1.57. Detection of Salmonella spp.	БДС EN ISO 19250 (3, 4)
		1.58. Enumeration of Pseudomonas aeruginosa	БДС EN ISO 16266 (1, 2, 4, 5)
2.	Surfaces to determine hygiene status	2.1. Enumeration of mesophyll aerobic and facultative anaerobic microorganisms	БДС EN ISO 4833-1
		2.2. Enumeration of coliforms	ISO 4832
		2.3. Enumeration of Escherichia coli	БДС ISO 16649–2
		2.4.Detection of Listeria - Listeria spp. - Listeria monocytogenes	БДС EN ISO 11290-1
		2.5. Enumeration of coagulase-positive staphylococci (Staphylococcus aureus)	БДС EN ISO 6888-1
		2.6. Detection of Salmonella	БДС EN ISO 6579-1
3.	Ready to eat food	3.1. Enumeration of mesophyll aerobic and facultative anaerobic microorganisms	БДС EN ISO 4833-1
		3.2. Enumeration of coliforms	ISO 4832
		3.3. Enumeration of Escherichia coli	БДС ISO 16649–2
		3.4. Enumeration of coagulase-positive staphylococci (Staphylococcus aureus)	БДС EN ISO 6888-1
		3.5.Detection of Salmonellas pp.	БДС EN ISO 6579-1
		3.6.Detection end enumeration of Listeria - Listeria spp. - Listeria monocytogenes	БДС EN ISO 11290-1 БДС EN ISO 11290-2

Type of the scope: *flexible for a part of the scope**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	**2**	**3**	**4**
		3.7.Enumeration of yeasts and moulds	БДС ISO 21527-1 БДС ISO 21527-2
4.	Soils (1) Sludges /sludges from treatment plants (2) Biowastes (3)	4.1. pH - pH (H_2O) - pH (KCl) - pH ($CaCl_2$)	БДС EN ISO 10390 (1, 2, 3)
		4.2. Dry matter / Moisture content	ISO 11465(1) БДС EN 12880 (2, 3)
		4.3.Organic substances /humus/ Total organic carbon (TOC)	БДС ISO 14235 (1, 3) БДС 11302 (1, 3) ILTM 5.04-1-35:2018 (2)
		4.4.Total nitrogen/Total nitrogen Kjeldahl method	БДС ISO 11261 (1, 3) ILTM 5.04-1-36:2018 (2)
		4.5. Total extractable organic compounds /animal fat and vegetable oils / petroleum products	ILTM 5.04-1-21:2016 (1, 2, 3)
		4.6. Sodium -digestible form -general form	ILTM 5.04-1-26:2023 (1, 2, 3)
		4.7. Potassium -digestible form -general form	ILTM 5.04-1-27:2023 (1, 2, 3)
		4.8. Phosphorus -digestible form -general form	ILTM 5.04-1-09:2023 (1, 2, 3)
		4.9. Calcium -digestible form	ГОСТ 26487 т.2 (1, 2, 3)
		4.10. Magnesium -digestible form	ГОСТ 26487т.2 (1, 2, 3)
		4.11. Copper (Cu)	ILTM 5.04-1-15:2023 (1, 2, 3)
		4.12. Cadmium (Cd)	ILTM 5.04-1-16:2023 (1, 2, 3)
		4.13. Lead (Pb)	ILTM 5.04-1-14:2023 (1, 2, 3)
		4.14. Zinc (Zn)	ILTM 5.04-1-13:2023 (1, 2, 3)
		4.15. Nickel (Ni)	ILTM 5.04-1-25:2023 (1, 2, 3)
		4.16. Chromium (Cr)	ILTM 5.04-1-11:2023 (1, 2, 3)
		4.17. Arsenic (As)	ILTM 5.04-1-19:2023 (1, 2, 3)
		4.18.Enumeration of Escherichia coli	СД CEN/TR 16193 (1, 2, 3)
		4.19. Detection if Salmonella spp.	СД CEN/TR 15215-3 (1, 2, 3)
		4.20. Detection of viable helminth ova	ILTM 5.04-1-33:2016 (1, 2, 3)
		4.21. Detection spores of	ILTM 5.04-1-37:2022

Type of the scope: *flexible for a part of the scope**			
№	**Tested products**	**Type of test / characteristic**	**Testing methods (standard / validated method)**
1	**2**	**3**	**4**
		Clostridium perfringens	(1, 2, 3)
		4.22. Nitrogen ammonium (NH_4-N)	БДС ISO 7150-1 (1, 2, 3)
		4.23. Nitrogen nitrate (NO_3-N)	БДС ISO 7890-3 (1, 2, 3)
		4.24. Nitrogen nitrite (NO_2-N)	ILTM 5.04-1-02:2009 (1, 2, 3)
		4.25. Determination of loss on ignition	БДС EN 15935 (1, 2, 3)
		4.26. Determination sullfate (SO_4^{2-}) -water-soluble -acid soluble	БДС ISO 11048 (1)
		4.27. Determination of the proportion of slugle volume/ slugle volume index	БДС EN 14702-1 (2)

To perform sampling of:

Type of the scope: *flexible for a part of the scope**		
№	**Product**	**Sampling method (standard/validated)**
1	**2**	**3**
1.	WATER - Drinking water (1), - Mineral water (2), - Surface water (3), - Underground water (4), - Swimming pool water (5), - Fish farming water (6), - Waste water (7)	БДС ISO 5667-5 (1, 2) БДС EN ISO 5667-6/A11 (3, 6) БДС ISO 5667-4 (3, 6) БДС ISO 5667-10 (7) БДС ISO 5667-11, cl. 3.9, cl. 3.16, cl. 3.17, cl. 5.3.2.2., cl. 6.1.1. (2, 4) БДС EN ISO 19458 (1, 2, 3, 4, 5)
2.	Surfaces to determine hygiene status	БДС EN ISO 18593
3.	Soils (1) Sludges /sludges from treatment plants (2)	БДС ISO 18400-102 (1) БДС EN ISO 5667 -13 (2)

Flexible scope:

Implementing a new version of standards/documents or standards / documents replacing them is allowed. An updated list of standards/documents and their dated versions is provided by CAB.

Fixed scope references:

ILTM 5.04-1-01:2009 – Water quality. Determination of nitrate content in water. Photometric method.

ILTM 5.04-1-02:2009 – Water quality. Determination of nitrite content in water. Photometric method.

ILTM 5.04-1-03:2009 - Water quality. Determination of ammonium ions content in water. Photometric method.

ILTM 5.04-1-04:2009 – Water quality. Determination of residual free chlorine and total residual chlorine contentnin water. Photometric method.
ILTM 5.04-1-05:2009 - Water quality. Determination of iron content in water. Photometric method.
ILTM 5.04-1-06:2009 - Water quality. Determination of manganese content in water. Photometric method.
ILTM 5.04-1-07:2009 - Water quality. Determination of chloride content in water. Photometric method.
ILTM 5.04-1-08:2009 - Water quality. Determination of sulphates content in water. Photometric method.
ILTM 5.04-1-09:2023 – Photometric method for the determination of phosphate content in water, soils, sludges and biowastes.
ILTM 5.04-1-10:2009 - Water quality. Determination of fluoride content in water. Photometric method.
ILTM 5.04-1-11:2023 - Photometric method for the determination of chromium content in water, soils, sludges and biowastes.
ILTM 5.04-1-13:2023 - Photometric method for the determination of zinc content in water, soils, sludges and biowastes.
ILTM 5.04-1-14:2023 - Photometric method for the determination of lead content in water, soils, sludges and biowastes.
ILTM 5.04-1-15:2023 - Photometric method for the determination of copper content in water, soils, sludges and biowastes.
ILTM 5.04-1-16:2023 - Photometric method for the determination of cadmium content in water, soils, sludges and biowastes.
ILTM 5.04-1-18:2011 - Water quality. Determination of aluminium content in water. Photometric method.
ILTM 5.04-1-19:2023 - Photometric method for the determination of arsenic content in water, soils, sludges and biowastes.
ILTM 5.04-1-20:2011 - Water quality. Determination of cyanid content in water. Photometric method.
ILTM 5.04-1-21:2016- Photometric method for the determination of total extractable organic compounds, animal fat and vegetable oils, petroleum products content in water, soils, sludges and biowastes.
ILTM 5.04-1-22:2012 – Determination of total water mineralization.
ILTM 5.04-1-23:2012 – Detrmination of magnesium content in water.
ILTM 5.04-1-25:2023 - Photometric method for the determination of nickel content in water, soils, sludges and biowastes.
ILTM 5.04-1-26:2023 - Photometric method for the determination of sodium content in water, soils, sludges and biowastes.
ILTM 5.04-1-27:2023 - Photometric method for the determination of potassium content in water, soils, sludges and biowastes.
ILTM 5.04-1-28:2016 – Water quality. Determination of soluble silicate content. Photometric method.
ILTM 5.04-1-29:2013 – Water quality. Determination of phenol content. Phenol index. Photometric method.
ILTM 5.04-1-30:2013 – Water quality. Determination of total and dissolved organic carbon content. Photometric method.
ILTM 5.04-1-31:2013 – Water quality. Determination of total nitrogen content in water. Photometric method.
ILTM 5.04-1-32:2016 - Water quality. Determination of organic nitrogen content.
ILTM 5.04-1-33:2016 – Determination of viable helminth eggs and larvae in soils, sludges and biowastes.
ILTM 5.04-1-35:2018 – Photometric method for the determination of organic carbon content of sludges.
ILTM 5.04-1-36:2018 – Dtermination method by Kjeldahl for total nitrogen in sludges
ILTM 5.04-1-37:2022 – Determination of spores on Clostridium perfringens in soils, sludges and biowastes. MPN Method by inoculation in a liquid medium.
ILTM 5.04-1-38:2021 – Determination of the number of Escherichia coli bacteria and coliform bacteria. Membrane method for water filtration

I ORDER

To issue the Certificate of accreditation reg. № 279 ЛИ/31.03.2023, valid until 31.03.2027, and this order as an integral part of it.

The Certificate of accreditation with the enclosure to be received by the Manager / representative of the Shipka Group AD, the head of the CENTRAL Testing Laboratory at Shipka Group AD, or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of Accreditation Certificate № 279 ЛИ/14.12.2021, valid until 15.01.2023 and its enclosure – EA BAS order reg. № А 798/14.12.2021.

This order shall be notified to the Shipka Group AD, within 3 (three) days from its issuance. issuance.

Eng. Irena Borislavova

Executive Director of EA BAS